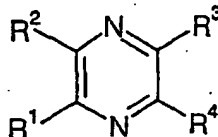


Claims

1. A compound of formula (I)



5

I

and pharmaceutically acceptable salts thereof, in which

R^1 and R^2 independently represent phenyl, thienyl or pyridyl each of which is independently optionally substituted by one or more groups represented by Z;

10

Z represents a C_{1-8} alkyl group, a C_{1-6} alkoxy group, hydroxy, halo, trifluoromethyl, trifluoromethylthio, trifluoromethoxy, trifluoromethylsulphonyl, nitro, mono or di C_{1-3} alkylamido, C_{1-3} alkylthio, C_{1-3} alkylsulphonyl, C_{1-3} alkylsulphonyloxy, C_{1-3} alkoxycarbonyl, carboxy, cyano, carbamoyl, mono or di C_{1-3} alkyl carbamoyl, sulphamoyl, acetyl, an aromatic heterocyclic group which is optionally substituted by one or more halo, C_{1-4} alkyl, trifluoromethyl or trifluoromethoxy and a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C_{1-3} alkyl groups, hydroxy, fluoro, benzyl or an amino group $-NR^xR^y$ in which R^x and R^y independently represent H or C_{1-4} alkyl;

20

R^3 and R^4 independently represent a group of formula $(CH_2)_nCOOR^7$

in which n is 0, 1, 2, 3 or 4; and R^7 represents a C_{4-12} alkyl group, a C_{3-12} cycloalkyl group or a $(C_{3-12}$ cycloalkyl) C_{1-3} alkyl- group each of which is optionally substituted by one or more of the following: a C_{1-6} alkyl group; fluoro, amino or hydroxy, or

25

R^7 represents a group $-(CH_2)_a$ phenyl in which a is 0, 1, 2, 3 or 4 and the phenyl group is optionally substituted by one or more groups represented by Z which may be the same or different or

R⁷ represents a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of the of the following: oxygen, sulphur or nitrogen; wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, C₁₋₃acyl groups, hydroxy, amino or benzyl; or

R³ and R⁴ independently represent a group of formula $-(CH_2)_o-O-(CH_2)_p-R^8$ in which o and p independently represent an integer 0, 1, 2, 3 or 4 with the proviso that neither R³ or R⁴ is methoxy, and R⁸ represents a C₁₋₁₂alkyl group or R⁸ represents phenyl optionally independently substituted by one or more Z groups or R⁸ represents an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of one following : oxygen, sulphur or nitrogen wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different ;

R³ and R⁴ independently represent a C₁₋₁₂alkyl group optionally substituted by one or more fluoro, hydroxy, or amino, provided that if R³ is C₁₋₄alkyl then R⁴ cannot be C₁₋₄alkyl or q cannot be 0 in R⁴, or

R³ and R⁴ independently represent a group of formula $-(CH_2)_qR^9$ in which q is 0, 1, 2, 3 or 4, provided that if q is 0 in R³ then q cannot be 0 in R⁴, and vice versa, R⁹ represents a C₃₋₁₂cycloalkyl group, phenyl, an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 12 membered heterocyclic group containing one or more of one following: oxygen, sulphur or nitrogen, wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different or each of these rings is substituted by phenyl which optionally substituted by more C₁₋₄alkyl, a C₁₋₄alkoxy, hydroxy, halo or trifluoromethyl.

R³ and R⁴ independently represent a group of formula $-(CH_2)_m-O-(CO)-R^{10}$ in which m represents an integer 0, 1, 2, 3 or 4, in which R¹⁰ represents a C₁₋₁₂alkyl group optionally substituted by one or more fluoro, hydroxy, or amino or R¹⁰ represents a group of formula $-(CH_2)_qR^9$ in which

q and R⁹ is as previously described;

or

R³ and R⁴ are identical and represent a group of formula CONR¹¹R¹²

in which

5 R¹¹ and R¹² independently represent a C₁₋₆alkyl group;

an (amino)C₁₋₄alkyl- group in which the amino is optionally substituted by one or more C₁₋₃alkyl groups;

a (C₃₋₁₂cycloalkyl)(CH₂)_g group wherein g is 0, 1, 2 or 3 wherein the cycloalkyl is optionally substituted by one or more fluoro, hydroxy, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkoxycarbonyl,

10 trifluoromethyl, amino or trifluoromethoxy;

a group -(CH₂)_r(phenyl)_s in which r is 0, 1, 2, 3 or 4, s is 1 when r is 0 otherwise s is 1 or 2 and the phenyl groups are optionally independently substituted one or more groups represented by Z;

naphthyl;

15 anthracenyl;

a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, hydroxy, fluoro, trifluoromethyl, benzyl or an amino group -NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl ;

20 1-adamantylmethyl;

a group - (CH₂)_t Het in which t is 0, 1, 2, 3 or 4, and the alkylene chain is optionally substituted by one or more C₁₋₃alkyl groups and Het represents an aromatic heterocyclic group optionally substituted by one, two or three groups selected from a C₁₋₅alkyl group, a C₁₋₅alkoxy group or halo ;

25 or R¹¹ represents H and R¹² is as defined above;

or R¹¹ and R¹² together with the nitrogen atom to which they are attached represent a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one nitrogen and optionally one of the following: oxygen, sulphur or an additional nitrogen; wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups,

30 hydroxy, fluoro, trifluoromethyl, trifluoromethoxy, benzyl, C₁₋₆alkanoyl or an amino group - NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl ;

with the provisos that

- 1) when R^3 and R^4 are both a group of formula $\text{CONR}^{11}\text{R}^{12}$ then they do not represent carbamoyl, or mono or di C_{1-3} alkylcarbamoyl and
- 2) when R^1 , R^2 and R^3 each represent phenyl then R^4 is not benzyl.
- 3) when one of R^3 or R^4 is C_{1-4} alkyl then the other is not a group $-(\text{CH}_2)_q\text{R}^9$ in which q is 0.

5

2. A compound according to claim 1, wherein R^1 and R^2 are phenyl optionally substituted by one or more groups Z.

3. A compound according to any of the preceding claims, wherein R^1 and R^2 are both 4-chlorophenyl.

10

4. A compound according to any of the preceding claims, wherein R^3 and R^4 independently represent a group of formula COOR^7 in which R^7 is a C_{4-8} alkyl group.

15

5. A compound according to any of the preceding claims, wherein R^3 represents a group of formula COOR^7 in which R^7 is a C_{4-8} alkyl group and R^4 represents a group of formula $-(\text{CH}_2)_o\text{-O-(CH}_2)_p\text{-R}^8$ in which o and p independently represent an integer 0, 1, 2, 3 or 4 R^8 represents phenyl optionally independently substituted by one or more Z groups.

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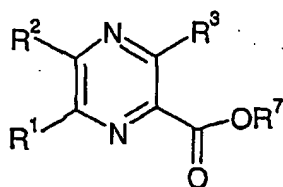
6. A compound according to any of the preceding claims, wherein R^3 and R^4 both represent a group of formula $\text{CONR}^{11}\text{R}^{12}$ in which R^{11} and R^{12} together with the nitrogen atom to which they are attached represent piperidino.

7. A compound according to any of the preceding claims, wherein R^3 represents a group of formula COOR^7 in which R^7 is a C_{4-8} alkyl group and R^4 represents a group of formula R^3 and R^4 independently represent a group of formula $-(\text{CH}_2)_m\text{-O-(CO)-R}^{10}$ in which m represents an integer 0, 1, 2, 3 or 4, in which R^{10} represents a C_{1-12} alkyl group optionally substituted by one or more fluoro, hydroxy, or amino or R^{10} represents phenyl optionally substituted by one or more groups represented by Z which may be the same or different.

30

8. A compound according to any of the preceding claims, wherein R^3 and R^4 are identical.

9. A compound of formula I according to claim 1 as represented by formula II



II

in which R¹ and R² are both 4-chlorophenyl;

- 5 R³ represents dihydrooxazolyl, (3-oxa-1-azaspiro[4.4]nonenyl), oxazolyl or tetrazol-2-ylmethyl optionally substituted by phenyl or a C₁₋₄alkyl group; and
 R⁷ represents a C₄₋₁₂alkyl group, a C₃₋₁₂cycloalkyl group or a (C₃₋₁₂cycloalkyl)C₁₋₃alkyl-group each of which is optionally substituted by one or more of the following: a C₁₋₆alkyl group; fluoro, amino or hydroxy.

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10. A compound selected from one or more of the following:

2,3-bis(4-chlorophenyl)-5,6-bis(piperidin-1-ylcarbonyl)pyrazine,

bis-2,3-(*tert*-butoxy)-5,6-bis(4-chlorophenyl)pyrazine-2,3-dicarboxylate,

5,6-bis(4-chlorophenyl)-3-(4,4-dimethyl-4,5-dihydrooxazol-2-yl)-pyrazine-2-carboxylic acid

15 *tert*-butylester,

5,6-bis(4-chlorophenyl)-3-(3-oxa-1-azaspiro[4.4]non-1-en-2-yl)-pyrazine-2-carboxylic acid

tert-butylester,

5,6-bis(4-chlorophenyl)-3-(4-methyl-4,5-dihydrooxazol-2-yl)-pyrazine-2-carboxylic acid *tert*-butylester,

20 5,6-bis(4-chlorophenyl)-3-(4-methyloxazol-2-yl)-pyrazine-2-carboxylic acid *tert*-butylester,

5,6-bis(4-chlorophenyl)-3-(4-phenyloxazol-2-yl)-pyrazine-2-carboxylic acid *tert*-butylester,

5,6-bis(4-chlorophenyl)-3-(5-phenyl-4,5-dihydrooxazol-2-yl)-pyrazine-2-carboxylic acid *tert*-butylester,

tert-butyl 5,6-bis(4-chlorophenyl)-3-(2*H*-tetrazol-2-ylmethyl)pyrazine-2-carboxylate and

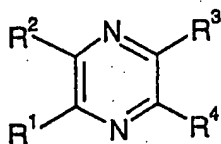
25 pharmaceutically acceptable salts thereof.

11. A compound of formula I as claimed in any previous claim for use as a medicament.

12. A pharmaceutical formulation comprising a compound of formula I according to any of the claims 1-10, as defined in any either claim 1 or claim 2 and a pharmaceutically acceptable adjuvant, diluent or carrier.

13. Use of a compound of formula I according to any of the claims 1-10 in the preparation of a medicament for the treatment or prophylaxis of obesity, psychiatric disorders such as psychotic disorders, schizophrenia and bipolar disorders, anxiety, anxio-depressive disorders, depression, cognitive disorders, memory disorders, obsessive-compulsive disorders, anorexia, bulimia, attention disorders, epilepsy, and related conditions, and neurological disorders such as dementia, neurological disorders, Parkinson's Disease, Huntington's Chorea and Alzheimer's Disease, immune, cardiovascular, reproductive and endocrine disorders, septic shock, diseases related to the respiratory and gastrointestinal systems, and extended abuse, addiction and/or relapse indications.

14. Use of a compound of formula (Ia) and pharmaceutically acceptable salts thereof, in the preparation of a medicament for the treatment or prophylaxis of obesity, psychiatric disorders such as psychotic disorders, schizophrenia and bipolar disorders, anxiety, anxio-depressive disorders, depression, cognitive disorders, memory disorders, obsessive-compulsive disorders, anorexia, bulimia, attention disorders, epilepsy, and related conditions, and neurological disorders such as dementia, neurological disorders, Parkinson's Disease, Huntington's Chorea and Alzheimer's Disease, immune, cardiovascular, reproductive and endocrine disorders, septic shock, diseases related to the respiratory and gastrointestinal systems, and extended abuse, addiction and/or relapse indications, wherein Formula Ia has the following general formula:



Ia

in which R¹ and R² independently represent phenyl, thienyl or pyridyl each of which is independently optionally substituted by one or more groups represented by Z;

Z represents a C₁₋₈alkyl group, a C₁₋₆alkoxy group, hydroxy, halo, trifluoromethyl, trifluoromethylthio, trifluoromethoxy, trifluoromethylsulphonyl, nitro, mono or di C₁₋₃alkylamido, C₁₋₃alkylsulphonyl, C₁₋₃alkylsulphonyloxy, C₁₋₃alkoxycarbonyl, carboxy, cyano, carbamoyl, mono or di C₁₋₃alkyl carbamoyl, sulphamoyl, acetyl, an aromatic heterocyclic group which is optionally substituted by one or more halo, C₁₋₄alkyl, trifluoromethyl or trifluoromethoxy and a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, hydroxy, fluoro, benzyl or an amino group -NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl;

R³ and R⁴ independently represent a group of formula (CH₂)_nCOOR⁷

in which n is 0, 1, 2, 3 or 4; and R⁷ represents a C₁₋₁₂alkyl group, a C₃₋₁₂cycloalkyl group or a (C₃₋₁₂cycloalkyl)C₁₋₃alkyl- group each of which is optionally substituted by one or more of the following: a C₁₋₆alkyl group; fluoro, amino or hydroxy, or

R⁷ represents a group -(CH₂)_aphenyl in which a is 0, 1, 2, 3 or 4 and the phenyl group is optionally substituted by one or more groups represented by Z which may be the same or different or

R⁷ represents a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of the of the following: oxygen, sulphur or nitrogen; wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, C₁₋₃acyl groups, hydroxy, amino or benzyl; or

R³ and R⁴ independently represent a group of formula -(CH₂)_o-O-(CH₂)_p-R⁸ in which o and p independently represent an integer 0, 1, 2, 3 or 4 and R⁸ represents a C₁₋₁₂alkyl group or R⁸ represents phenyl optionally independently substituted by one or more Z groups or R⁸ represents an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of one following: oxygen, sulphur or nitrogen wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different ;

R^3 and R^4 independently represent a C_{1-12} alkyl group optionally substituted by one or more fluoro, hydroxy, or amino; or

- 5 R^3 and R^4 independently represent a group of formula $-(CH_2)_qR^9$ in which q is 0, 1, 2, 3 or 4 and R^9 represents a C_{3-12} cycloalkyl group, phenyl, an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of one following: oxygen, sulphur or nitrogen wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different; or

10

R^3 and R^4 independently represent a group of formula $-(CH_2)_m-O-(CO)-R^{10}$ in which m represents an integer 0, 1, 2, 3 or 4, in which R^{10} represents a C_{1-12} alkyl group optionally substituted by one or more fluoro, hydroxy, or amino or R^{10} represents a group of formula $-(CH_2)_qR^9$ in which

- 15 q and R^9 is as previously described;

or

R^3 and R^4 independently represent a group of formula $CONR^{11}R^{12}$ in which

R^{11} and R^{12} independently represent a C_{1-6} alkyl group;

- 20 an (amino) C_{1-4} alkyl- group in which the amino is optionally substituted by one or more C_{1-3} alkyl groups;

a $(C_{3-12}$ cycloalkyl) $(CH_2)_g$ - group wherein g is 0, 1, 2 or 3 wherein the cycloalkyl is optionally substituted by one or more fluoro, hydroxy, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkoxycarbonyl, trifluoromethyl, amino or trifluoromethoxy;

- 25 a group $-(CH_2)_r(phenyl)_s$ in which r is 0, 1, 2, 3 or 4, s is 1 when r is 0 otherwise s is 1 or 2 and the phenyl groups are optionally independently substituted one or more groups represented by Z ;

naphthyl;

anthracenyl;

- 30 a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C_{1-3} alkyl groups, hydroxy, fluoro, trifluoromethyl, benzyl or an amino group $-NR^xR^y$ in which R^x and R^y independently represent H or C_{1-4} alkyl;

1-adamantylmethyl;

a group $-(CH_2)_t$ Het in which t is 0, 1, 2, 3 or 4, and the alkylene chain is optionally substituted by one or more C_{1-3} alkyl groups and Het represents an aromatic heterocyclic group optionally substituted by one, two or three groups selected from a C_{1-5} alkyl group, a C_{1-5} alkoxy group or halo;

or R^{11} represents H and R^{12} is as defined above;

or R^{11} and R^{12} together with the nitrogen atom to which they are attached represent a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one nitrogen and optionally one of the following: oxygen, sulphur or an additional nitrogen;

wherein the heterocyclic group is optionally substituted by one or more C_{1-3} alkyl groups, hydroxy, fluoro, trifluoromethyl, trifluoromethoxy, benzyl, C_{1-6} alkanoyl or an amino group $-NR^xR^y$ in which R^x and R^y independently represent H or C_{1-4} alkyl;

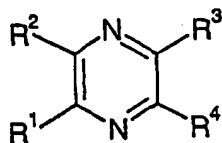
with the proviso that when one of R^3 and R^4 is a C_{1-3} alkyl group, a C_{1-3} alkoxymethyl group, trifluoromethyl, a hydroxy C_{1-3} alkyl group, C_{1-3} alkoxycarbonyl, carboxy, carbamoyl, or mono

or di C_{1-3} alkylcarbamoyl then the other does not represent a group of formula $CONR^{11}R^{12}$.

15. A method of treating obesity, psychiatric disorders, psychotic disorders, schizophrenia and bipolar disorders, anxiety, anxio-depressive disorders, depression, cognitive disorders, memory disorders, obsessive-compulsive disorders, anorexia, bulimia, attention disorders, epilepsy, and related conditions, neurological disorders, neurological disorders, Parkinson's Disease, Huntington's Chorea and Alzheimer's Disease, immune, cardiovascular, reproductive and endocrine disorders, septic shock, diseases related to the respiratory and gastrointestinal system, and extended abuse, addiction and/or relapse indications, comprising administering a pharmacologically effective amount of a compound of formula I according to any of the claims 1-10 to a patient in need thereof.

16. A method of treating obesity, psychiatric disorders, psychotic disorders, schizophrenia and bipolar disorders, anxiety, anxio-depressive disorders, depression, cognitive disorders, memory disorders, obsessive-compulsive disorders, anorexia, bulimia, attention disorders, epilepsy, and related conditions, neurological disorders, neurological disorders, Parkinson's Disease, Huntington's Chorea and Alzheimer's Disease, immune, cardiovascular, reproductive and endocrine disorders, septic shock, diseases related to the respiratory and gastrointestinal system, and extended abuse, addiction and/or relapse indications, comprising

administering a pharmacologically effective amount of a compound of formula Ia to a patient in need thereof, wherein Formula Ia has the following general formula:



Ia

in which R¹ and R² independently represent phenyl, thienyl or pyridyl each of which is independently optionally substituted by one or more groups represented by Z;

Z represents a C₁₋₈alkyl group, a C₁₋₆alkoxy group, hydroxy, halo, trifluoromethyl, trifluoromethylthio, trifluoromethoxy, trifluoromethylsulphonyl, nitro, mono or di C₁₋₃alkylamido, C₁₋₃alkylsulphonyl, C₁₋₃alkylsulphonyloxy, C₁₋₃alkoxycarbonyl, carboxy, cyano, carbamoyl, mono or di C₁₋₃alkyl carbamoyl, sulphamoyl, acetyl, an aromatic heterocyclic group which is optionally substituted by one or more halo, C₁₋₄alkyl, trifluoromethyl or trifluoromethoxy and a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, hydroxy, fluoro, benzyl or an amino group -NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl;

R³ and R⁴ independently represent a group of formula (CH₂)_nCOOR⁷

in which n is 0, 1, 2, 3 or 4; and R⁷ represents a C₁₋₁₂alkyl group, a C₃₋₁₂cycloalkyl group or a (C₃₋₁₂cycloalkyl)C₁₋₃alkyl- group each of which is optionally substituted by one or more of the following: a C₁₋₆alkyl group; fluoro, amino or hydroxy, or

R⁷ represents a group -(CH₂)_aphenyl in which a is 0, 1, 2, 3 or 4 and the phenyl group is optionally substituted by one or more groups represented by Z which may be the same or different or

R⁷ represents a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more of the of the following: oxygen, sulphur or nitrogen; wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, C₁₋₃acyl groups, hydroxy, amino or benzyl; or

5

R³ and R⁴ independently represent a group of formula -(CH₂)_o-O-(CH₂)_p-R⁸ in which o and p independently represent an integer 0, 1, 2, 3 or 4 and R⁸ represents a C₁₋₁₂alkyl group or R⁸ represents phenyl optionally independently substituted by one or more Z groups or R⁸ represents an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 8
10 membered heterocyclic group containing one or more of one following: oxygen, sulphur or nitrogen wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different ;

R³ and R⁴ independently represent a C₁₋₁₂alkyl group optionally substituted by one or more
15 fluoro, hydroxy, or amino; or

R³ and R⁴ independently represent a group of formula -(CH₂)_qR⁹ in which q is 0, 1, 2, 3 or 4 and R⁹ represents a C₃₋₁₂cycloalkyl group, phenyl, an aromatic heterocyclic group or a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or more
20 of one following: oxygen, sulphur or nitrogen wherein each of these rings is optionally substituted by one or more groups represented by Z which may be the same or different; or

R³ and R⁴ independently represent a group of formula -(CH₂)_m-O-(CO)-R¹⁰ in which m represents an integer 0, 1, 2, 3 or 4, in which R¹⁰ represents a C₁₋₁₂alkyl group optionally
25 substituted by one or more fluoro, hydroxy, or amino or R¹⁰ represents a group of formula -(CH₂)_qR⁹ in which q and R⁹ is as previously described;

or

R³ and R⁴ independently represent a group of formula CONR¹¹R¹²
30 in which

R¹¹ and R¹² independently represent a C₁₋₆alkyl group;

an (amino)C₁₋₄alkyl- group in which the amino is optionally substituted by one or more C₁₋₃alkyl groups;

a (C₃₋₁₂cycloalkyl)(CH₂)_g- group wherein g is 0, 1, 2 or 3 wherein the cycloalkyl is optionally substituted by one or more fluoro, hydroxy, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkoxycarbonyl, trifluoromethyl, amino or trifluoromethoxy;

a group -(CH₂)_r(phenyl)_s in which r is 0, 1, 2, 3 or 4, s is 1 when r is 0 otherwise s is 1 or 2

5 and the phenyl groups are optionally independently substituted one or more groups represented by Z;

naphthyl;

anthracenyl;

a saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one or
10 more heteroatoms selected from nitrogen, oxygen or sulphur wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, hydroxy, fluoro, trifluoromethyl, benzyl or an amino group -NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl; 1-adamantylmethyl;

a group - (CH₂)_t Het in which t is 0, 1, 2, 3 or 4, and the alkylene chain is optionally
15 substituted by one or more C₁₋₃alkyl groups and Het represents an aromatic heterocyclic group optionally substituted by one, two or three groups selected from a C₁₋₅alkyl group, a C₁₋₅alkoxy group or halo;

or R¹¹ represents H and R¹² is as defined above;

or R¹¹ and R¹² together with the nitrogen atom to which they are attached represent a
20 saturated or partially unsaturated 5 to 8 membered heterocyclic group containing one nitrogen and optionally one of the following: oxygen, sulphur or an additional nitrogen; wherein the heterocyclic group is optionally substituted by one or more C₁₋₃alkyl groups, hydroxy, fluoro, trifluoromethyl, trifluoromethoxy, benzyl, C₁₋₆alkanoyl or an amino group - NR^xR^y in which R^x and R^y independently represent H or C₁₋₄alkyl;

25 with the proviso that when one of R³ and R⁴ is a C₁₋₃alkyl group, a C₁₋₃alkoxymethyl group, trifluoromethyl, a hydroxyC₁₋₃alkyl group, C₁₋₃alkoxycarbonyl, carboxy, carbamoyl, or mono or di C₁₋₃alkylcarbamoyl then the other does not represent a group of formula CONR¹¹R¹².

17. A compound according to any of the claims 1-10 for use in the treatment of obesity.

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